

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 3

Complete if known

Application Number 09/939,466
 Filing Date August 23, 2001
 First Named Inventor Rui-Fang Shi
 Group Art Unit 2877
 Examiner Name Pearlene Foster
 Attorney Docket Number 155635-0168 (P112)

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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code			
MS	1.	5,766,727		Moroishi et al.	06-16-1998	
MS	2.	5,582,878		Ogawa et al.	12-10-1996	
MS	3.	5,650,889		Yamamoto et al.	07-22-1997	
MS	4.	5,539,213		Meeks et al.	07-23-1996	
MS	5.	4,473,431		Hollars et al.	12-05-1995	
MS	6.	5,490,131		Ohta et al.	02-06-1996	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office	Number	Kind Code			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
MS	7.	PAVLAT, RUSSELL, "Flying Height Measurement Systems and Slider Absorption," IDEMA - September/October 1994, Volume VII, No. 5
	8.	LEE, et al. "Enhanced Tribological Performance of Rigid Disk by Using Chemically Bonded Lubricant," J. Vac. Sci. Technology, Volume 11, No. 3, May/June 1993
MS	9.	MACHEHA, et al. "The Tribology of Tripad Sliders with Hydrogenated and Nitrogenated Disks," IEEE 1996, 1 page
MS	10.	SMALLEN, et al. "The Role of Disk Carbon and Slider in Water Adsorption," IEEE 1994

Examiner: Michael St. L. Date Considered: 2-5-03

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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ND	11.	MERCHANT, et al. "Lubricant Bonding and Orientation on Carbon Coated Media," IEEE Transactions on Magnetics, Volume 26, No. 5, September 1990
W	12.	AMIR, et al. "Properties of Nitrogen-doped Amorphous Hydrogenated Carbon Films," American Institute of Physics, November 1991
JS	13.	FREIRE, et al. "Nitrogen Implantation into Amorphous Carbon Films," NIMB - Nuclear Instruments and Methods in Physics Research 1995
JS	14.	DEMICHELIS, et al. "Deposition and Characterization of Amorphous Carbon Nitride Thin Films," Diamond and Related Materials 1995
JS	15.	HAUERT, et al. "Influence of Nitrogen Doping on Different Properties of a-C:H," Thin Solid Films 268, 1995
JS	16.	DWORSCHAK, et al. "Microstructures and Mechanical Properties of Amorphous Hydrogenated Carbon-Nitrogen Films," Diamond and Related Materials, 1994
JS	17.	RUHE, et al. "Terminal Attachment of Perfluorinated Polymers to Solid Surfaces," IBM Research Division 1994
JS	18.	MURAYAMA, et al. "Lubricant Bonding Via Terminal Bond Network," IEEE Transactions on Magnetics, Volume 31, No. 6, November 1995
JS	19.	LEE, et al. "The Effect of Chemical and Surface Properties of Hydrogenated Carbon Overcoats on the Tribological Performance of Rigid Magnetic Disks," IEEE Transactions on magnetics, Volume 29, No. 1, January 1993
JS	20.	KOKAKU, et al. "Properties of Diamond-like Carbon Film and Its Application as a Protective Layer in Thin-Film Magnetic Recording Disks," IEEE Transactions on Magnetics, Volume 29, No. 6, November 1993
JS	21.	TSAl, et al. "Critical Review: Characterization of Diamond like Carbon Films and their application as Overcoats on Thin-Film Media for Magnetic Recording," American Vacuum Society, November/December 1987
JS	22.	KAUFMAN, et al. "Symmetry Breaking in Nitrogen-doped Amorphous Carbon: Infrared Observation of the Raman-active G and D bands," Physical Review B: Condensed Matter, Third Series, Volume 39, No. 18, June 1989
JS	23.	REVELLE, et al. "The Role of Hydrogen in the Growth of Amorphous Hydrogenated Carbon," Solid State Communications, Volume 86, No. 4, pp. 235-237, 1993

Examiner:

Michael Stefan

Date Considered:

2-5-03

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24.	ULMAN, ABRAHAM. "An Introduction to Ultrathin Organic Films: Self-Assembled Monolayers," Academic Press, Rochester, New York
25.	"Tribology of LB and SA Films," Excerpt pp. 400-403

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Examiner: M. J. St. John Date Considered: 2-5-03

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* Not considered, references lack a publication date.